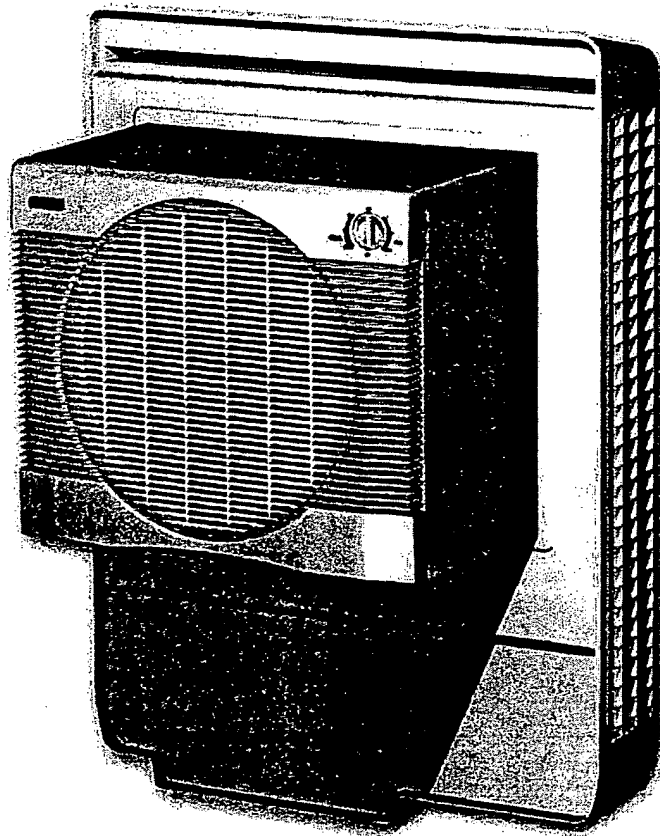


Installation and Operation Manual



BEST AVAILABLE COPY

Bonaire Evaporative Window Cooler

Please keep this important manual in a safe place. It is the owner's responsibility to ensure that regular maintenance is carried out on this Air Conditioning product. Failure to do so will void all guarantees beyond statutory and legal requirements.

www.climatetechnologies.com.au

Installation and Operation Manual



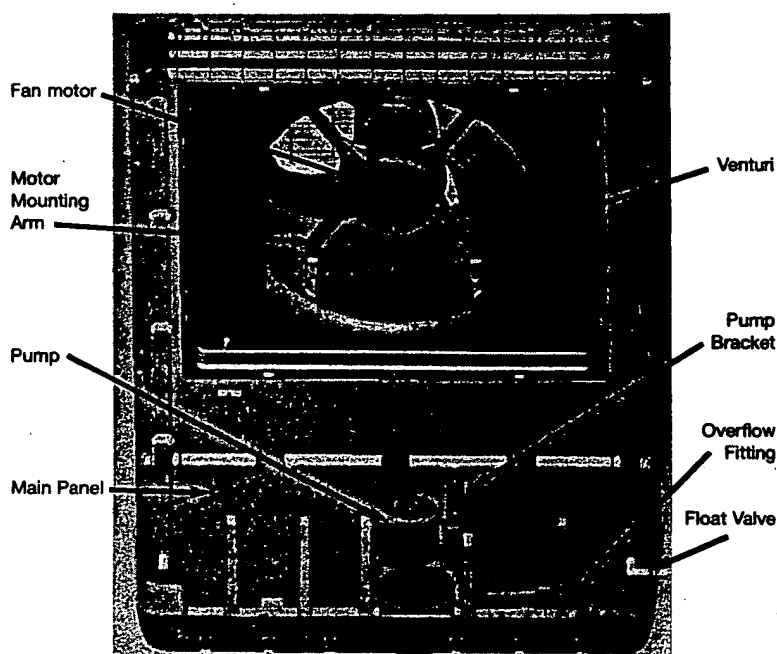
Thank you for purchasing a quality Bonaire Evaporative Cooler. We care about your safety and would ask you to spend a few minutes reading these simple instructions before installing or operating this product.



Safety !

Read carefully all of these instructions prior to installing and operating the unit.

- **Read and Save these Instructions. Do not throw these Instructions away.**
- Installation of this cooler in any manner not prescribed by these instructions could cause a safety issue and WILL void any warranty.
- Use only with a 120V, 60Hz grounded outlet.
- Unplug the cooler and position the rotary control knob to the OFF position when installing, servicing or cleaning.
- Do not operate cooler with rear panel removed.
- Do not operate cooler with a damaged cord, plug or other component.
- Do not run the power cord under carpet or other floor covering.
- Do not use the power cord with an adaptor plug that converts the 3 pin plug into a 2 prong connector.
- Do not use the cooler with an improperly grounded receptacle.
- Do not alter or modify this cooler.
- Do not allow children to install, operate or service this cooler.
- Do not use this cooler with any solid state fan speed control device.
- Use only qualified electricians for replacement or servicing of switches, or electrical motors and components in this cooler.
- This Window Mounted Cooler is suitable for installation in windows (either Sash hung or sliding) with a minimum opening width of 650mm and Height of 550mm, please ensure that the directions for correct mounting are adhered to for the SAFE operation of this Cooler.



Installation and Operation Manual



INSTALLATION



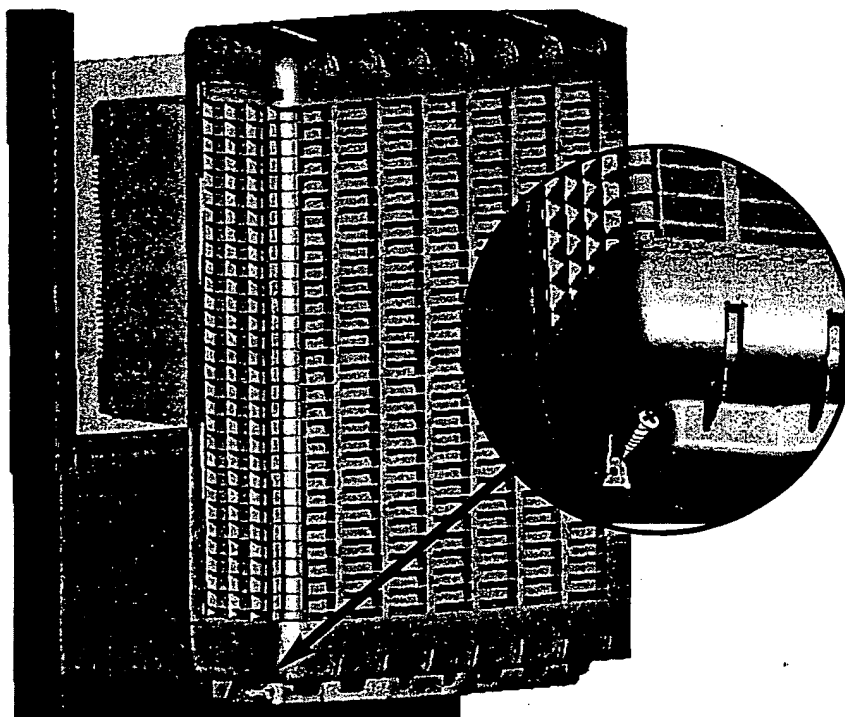
Note that it is not necessary to remove the rear panel from the unit for installation.

EXTERNAL FIXING OF THE UNIT

TOOLS / MATERIALS REQUIRED FOR INSTALLATION

- Drill (Power or Chordless)
 - Drills for drilling pilot holes into window frame 1/8" (3.2mm) Drill - or appropriate for size of Screw used.
 - Phillips Head Screw Driver
 - 3/4" Philips Head Screws for affixing Window Infill Panel
 - Silicone for sealing Window Infill Panel
 - Adjustable Wrench for Affixing Plumbing Lock Nuts.
- Ensure that the location chosen to mount the cooler is strong enough to support the operating weight of the unit. The unit's nominal operating weight is 42 kg / 93 lbs.
 - Ensure that the window opening large enough for the neck of the cooler (nominally 550mm (22") high by 650mm (26") wide).
 - Position the cooler through the window (two or more people will be required for this) so that the unit is hard up against the outside wall of the house.

Note that if the cooler does not fit hard up against the outside wall, utilise a spacer block of wood (not provided) which must be attached to the wall (the unit is then fixed to this wood).

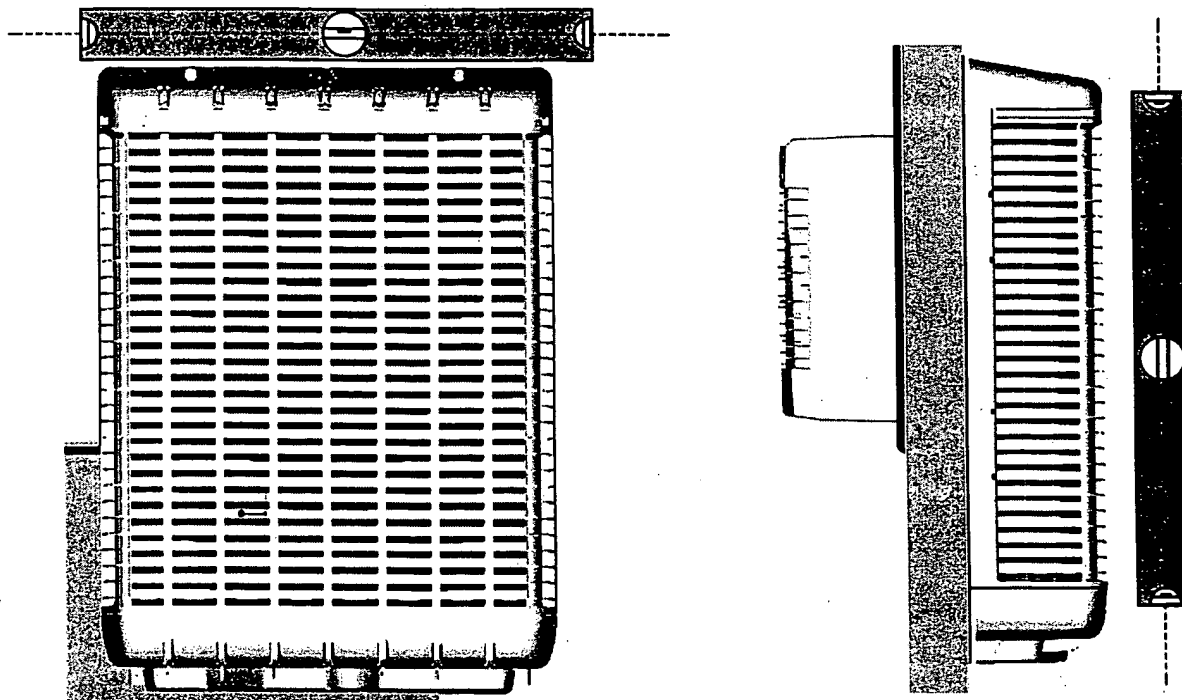


- Do not plug the cooler power in until installation is complete.

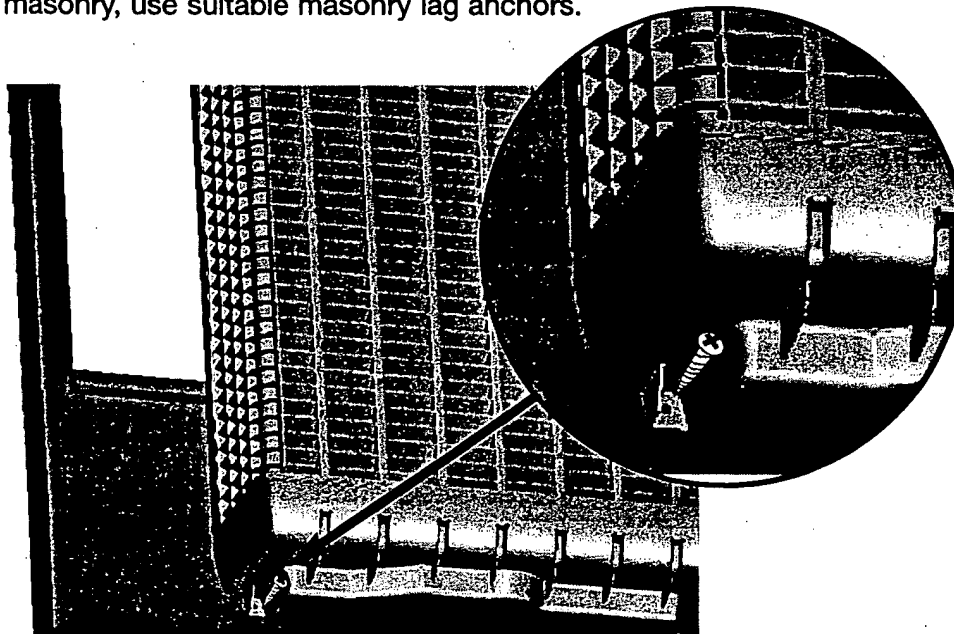
Installation and Operation Manual



- Ensure that the unit is installed level in the two positions illustrated prior to fixing the cooler.



- Use the two 'Wallmate' screws provided to fix the cooler to the outside of the house if a 'stucco-type' wall is being used. (Note that if the unit is not hard up against the wall, these fixing screws will go into the spacer block already installed). For solid walls, brick or masonry, use suitable masonry lag anchors.



- Affix unit to this location with screws provided

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MATERIALS NEEDED TO CONNECT WATER SUPPLY

- required length of 1/4" copper tubing
 - Valve
 - Sillcock
- Add a sillcock and water valve (not supplied) to the faucet closest to the cooler and attach water supply line between cooler and water valve.
 - The overflow is factory fitted.
 - The float valve is factory set and should require no further adjustment at time of installation.



INTERNAL FIXING OF THE UNIT

- **IT IS MANDATORY THAT THE METAL FIXING BRACKETS SUPPLIED ARE FITTED TO ENSURE A SECURE INSTALLATION.** Utilise the 2 fixing brackets and 4 screws provided as shown in the diagram to ensure the unit is adequately locked into position.
- Ensure that the bracket is aligned within the indicated track area. Drill and insert screws as per diagram.

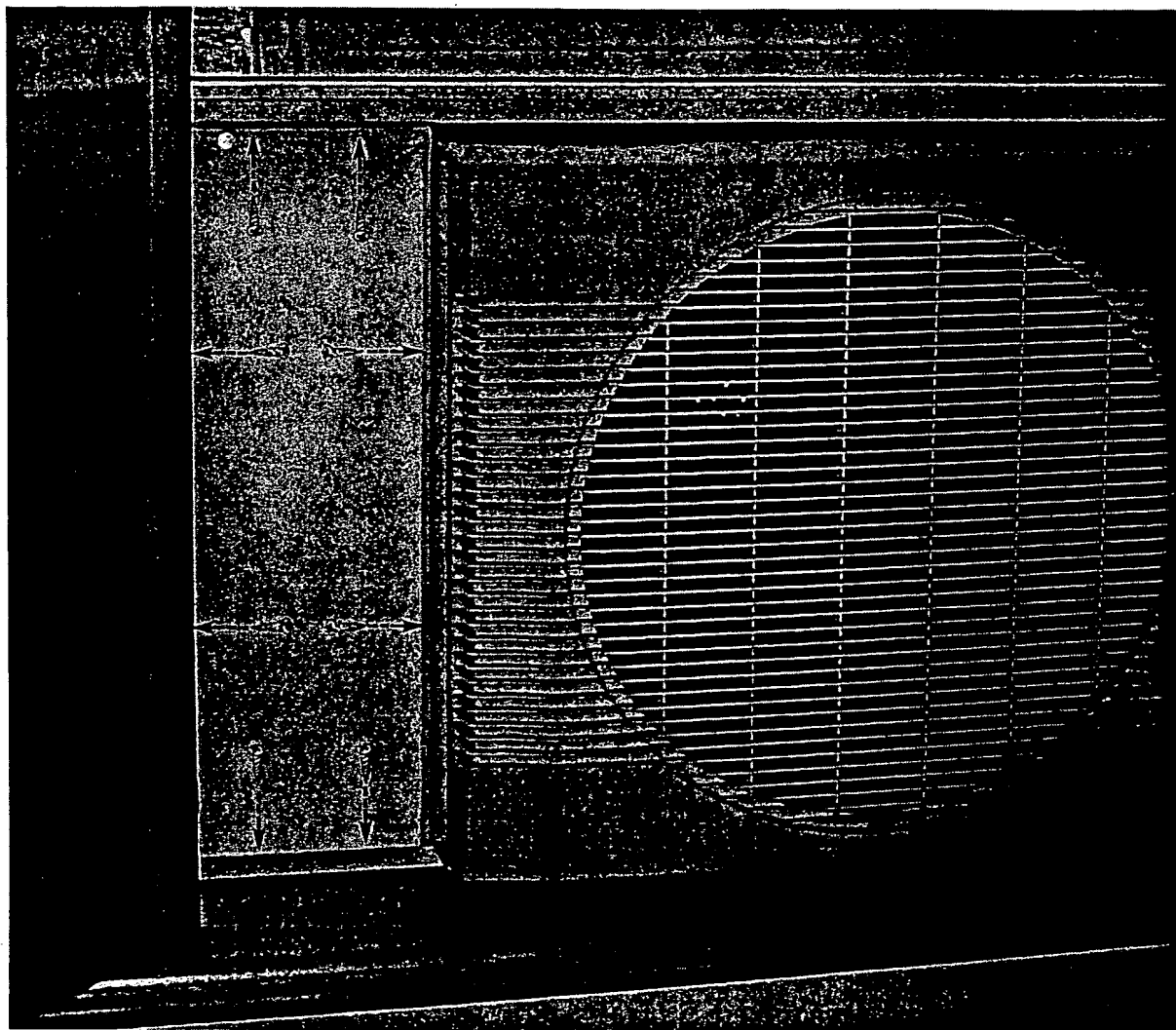


- Ensure that the cooler is now fixed rigidly to the house structure

Installation and Operation Manual



- Close window against unit. Measure the gap of the opening & cut the in-fill panel to fit in the gap left.



- Fit in fill panel with screws (length of screws must not exceed 1" or 25mm in length) and seal any gaps with silicone.
- Check that the unit is still level using spirit level on top edge of rear panel.

Installation and Operation Manual



Your cooler is now ready for commissioning.

COMMISSIONING

- Check that another door or window in the room is open to allow air to exhaust to other parts of the house.
- Turn the water supply to the cooler on.
- Plug the cooler into a 120V grounded appliance socket on the inside of the house and switch the socket on.
- Turn the unit on to FAN mode and check the operation of the three speed fan.
- Rotate the control knob to COOL mode and operate the three speed fan and pump.
- Leaving the unit in the COOL mode, check that a constant small stream of bleed off water is coming from the overflow tube. This bleed off is designed to reduce mineral build up on the CEL-dek filter pads.
- You may notice a wet paper smell as the water circulates around the filter pads. This is normal during the commissioning phase and at the beginning of each season when the unit is operated after the winter break. It will only last for a short time.

OPERATION

- Always ensure that there is another open window or door through which the air can exhaust to other parts of the house.
- Ensure that the filters are kept clean.
- Ensure that the water to the cooler is turned on and the plug is connected to a 120V grounded appliance socket on the inside of the house and turned on.

- Selecting Cooling Mode -
Move control knob to "Cool" side
Select desired fan speed

| | |
|------------|-------------------------|
| 1 | Sleep Mode |
| 2 | Normal Operation |
| Max | Quick Cool down |

- Selecting Fan Mode -
Move the control knob to the "Fan" side (pump isolated)
Select desired fan speed

| | |
|------------|-------------------------|
| 1 | Sleep Mode |
| 2 | Normal Operation |
| Max | Quick Cool down |

Installation and Operation Manual



- To turn the cooler off, rotate the control knob to the off position

MAINTENANCE:



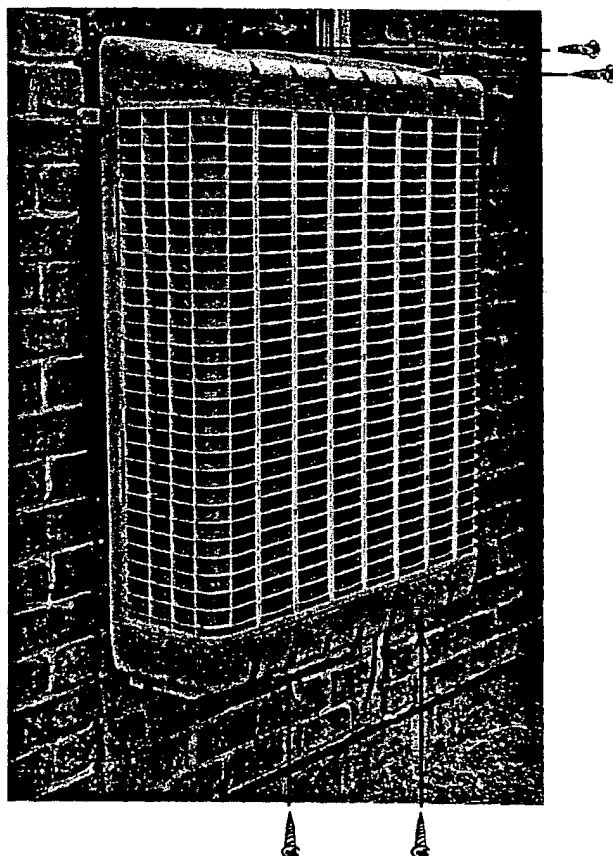
Before commencing any maintenance work on your unit, ensure it is disconnected from the power supply.

Note: It is essential that your evaporative air conditioner is maintained in accordance with this manual. Failure to do so will affect the life of the product and reduce the level of efficiency.

THIS MANUAL CONTAINS A 5 YEAR PLANNER TO USE IN CONJUNCTION WITH THESE INSTRUCTIONS.

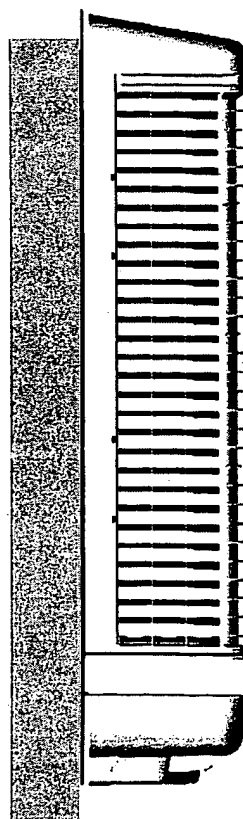
STEP 1

Remove rear panel fixing screws (4 off).



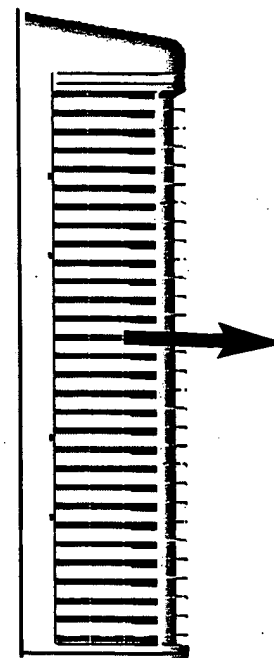
STEP 2

Lift the rear panel vertical fashion 3" or 75mm.



STEP 3

Pull rear panel away from unit.



Note: pump hose will be attached to rear panel. Should the hose come off during removal of rear panel care should be taken to re-attach before replacing rear panel.

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Filter Pads

Visually check CEL-dek pads for damage or blockage. Gently hose down pads from both sides to remove any build up of salts, dust and pollen. In dusty areas more regular cleaning is recommended. Check the water distributor, making sure it is clear and free from blockage. Failure to do so may lead to uneven water distribution and therefore less efficient operation.

Water Tank

It is important to keep the water tank clean and free from sediment and algae growth. Using a small soft bristle brush, brush all surfaces in the tank while it is full of water (DO NOT FORGET THE PUMP STRAINER). Turn off the water inlet to the unit (an Isolation Valve should be fitted to the water inlet before the Float Valve or at the water supply faucet). Drain the tank by removing the standpipe. It may be necessary to repeat this procedure if the tank is very dirty.

Water Distributor

Check the water distribution system for blockage. Check the delivery tube for kinks or holes.
Note: Water supply line to float valve must be flushed before connecting.

Water Level / Float Valve

The water level should be set at nominal 65mm – 75mm. The float valve is a mechanical type and is factory set. If it requires adjustment keep bends tight. If the valve is leaking, it may require replacement.

Note: Water supply line to float valve must be flushed before connecting.

Note: Some discharge from the overflow may be experienced after shut down due to water draining back from the Celdek pads. This is normal.

Motor and Fan

Check that the fan spins freely and that there is no build up on the blades. Check the motor for corrosion and spray with an anti corrosive agent if necessary.

ELECTRICAL

No general maintenance is required to the electrical system.

Electrical Connections and Maintenance Should Only Be Carried Out By A Qualified Electrician.

Bleed Off

The bleed off should be checked to ensure it is continuous and that there is no build up of mineral deposits in or on your air conditioner. White deposits indicate high mineral content and the Bleed Off system should be checked. If it is running as per normal and the bleed nozzle is clean and the deposits are still forming, then more regular maintenance is required.

Pump

Check the pump spins freely and that the strainer is clean. Ensure the rubber water slinger is in place on the stainless steel shaft under the motor.

Installation and Operation Manual



Trouble Shooting

| | PROBABLE CAUSE | REMEDY |
|--|---|---|
| Unit fails to start | a Power failure | a Wait for power to be turned on |
| | b Tripped Circuit Breaker | b Reset |
| | c Blown Fuse | c Replace |
| | d Electrical Fault | d Call Bonaire help line |
| Pump fails to start | a Pump Seized | a Isolate power and then take off top of pump and try to free it. Some lubricant may help |
| | b Electrical fault with pump | b Call Bonaire help line |
| Water leaking from overflow | a Float Valve Leaking | a Check adjustment or replace if necessary |
| | b Drain from Celdek Pads | b Normal Operation |
| Water Droplets in air stream | a Loose Delivery Tube | a Check and tighten |
| | b Break in tubing | b Replace as necessary |
| | c Pump appears to deliver excessive water to pads | c Check the condition of the Celdek pad. Wash if pad shows heavy build up of minerals. |
| | | d Ensure bleed nozzle is clean. |
| Excessive humidity | Inadequate Exhaust | Provide more open area to exhaust stale air |
| Inadequate Cooling | a Dirty Filters | a Clean |
| | b Dry Filters | b Check water delivery system. Adjust if necessary. |
| Unpleasant Odour | a Unit located near odour source | a Remove source |
| | b Algae in Water Tank | b Clean tank and refill with fresh water |
| Rapid formation of white deposits on pads | High Mineral Content | Bleed off should be checked to see if bleed nozzle is blocked, clear if necessary and clean Celdek pad. More regular maintenance may be required. |

THIS TROUBLE SHOOTING GUIDE IS A REFERENCE ONLY

ANY FURTHER PROBLEMS PLEASE CONTACT YOUR TOLL FREE BONAIRE CUSTOMER CARE LINE.

Installation and Operation Manual



E.A.C. SERVICE RECORDING PLANNER

| | | 1 st Year | 2 nd Year | 3 rd Year | 4 th Year | 5 th Year |
|--|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| PRESEASON CHECK | 1.1 Check quality of filters | | | | | |
| | 1.2 Check fan and pump | | | | | |
| | 1.3 Fill unit with water | | | | | |
| | 1.4 Start unit | | | | | |
| | 1.5 Check bleed-off system | | | | | |
| | Date: | | | | | |
| | Signed: | | | | | |
| FIRST MIDSEASON SERVICE | 2.1 Check and clean filters | | | | | |
| | 2.2 Drain, clean and refill water tray | | | | | |
| | 2.3 Check bleed-off system | | | | | |
| | 2.4 Check strainers and filters | | | | | |
| | 2.5 Check unit operates correctly | | | | | |
| | Date: | | | | | |
| | Signed: | | | | | |
| SECOND MIDSEASON SERVICE | 3.1 Check and clean filters | | | | | |
| | 3.2 Drain, clean and refill water tray | | | | | |
| | 3.3 Check bleed-off system | | | | | |
| | 3.4 Check strainers and filters | | | | | |
| | 3.5 Check unit operates correctly | | | | | |
| | Date: | | | | | |
| | Signed: | | | | | |
| END OF SEASON SERVICE AND SHUT DOWN | 4.1 Turn off water supply | | | | | |
| | 4.2 Drain and clean unit | | | | | |
| | 4.3 Leave drain plug removed | | | | | |
| | 4.4 Check motor and pump and spray with anti-corrosive agent | | | | | |
| | Date: | | | | | |
| | Signed: | | | | | |

**IF YOU HAVE A PROBLEM
DO NOT RETURN THIS
PORTABLE AIR COOLER TO
THE PLACE OF PURCHASE
CALL**

**SI TIENE ALGUN PROBLEMA
NO DEVUELVA ESTE
ENFRIADOR DE AIRE PORTATIL
AL LUGAR DONDE LO COMPRO
LLAME AL**

1-888-812-3496

Remember, your filter pads do need replacing at some stage!
Contact the **PARTS LINE** for pads that fit!



(800) 895 0029

email: support@kenmarsales.com

**¡Recuerde que las almohadillas de los filtros
en algún momento tienen que
reemplazarse! ¡Para obtener las almohadillas
correctas llame a la línea de repuestos!**



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Manufactured by
Climate Technologies
ABN 13 001 418 042

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Australia

www.climatetechnologies.com.au

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